By: Michael Chang   Date: February 19, 2021

Omoju Miller
- o Technical Advisor to CEO at GitHub
- o Co-led non-profit education in Google
- o PhD of Computer science at UC Berkley Story

- o Lagos, Nigeria

  - ▪ Problem number 1: Power outages
    - • Sometimes you have to wait for 3 weeks
    - • Got her to start read book
      - o "Because I am Involved" by Chukwuemeka Ojuku
        - ▪ About the Nigerian civil war
          - o It opened up a whole new world

  - ▪ Taking a mandatory computer science class at her high school
    - • Boring because they didn't work with an actual computer
    - • Instead, they learn
      - • Von Neumann machines
      - • Register
      - • Algorithmic logic units
      - • CPUs
    - • She done enough to pass the class
  - • Went to a US college and attend their mandatory computer science class
    - o This time is way different
      - ▪ She discovered the internet
      - ▪ She got deeply fascinated with the technology
      - ▪ Change her relationship with computer science
      - ▪ Declare her major to Computer Science
    - o Because she discovered the internet, she was motivated to dive deeper into the world of computer science.
    - o She discusses a thesis about how we learn from Seymour Papert, one of the founding fathers of Artificial intelligence (AI)
      - ▪ "The things that makes you learn is that you have to have a positive relationship with the collection of the ideas"
      - ▪ Ex. Understanding of gears
        - • Papert used to play around with gears
        - • Papert used gears as a computational object to think with and apply that way of thinking into computer science.
      - ▪ Similar to Papert, Miller was fascinated by the internet, and she become entranced by it. She has developed a positive attachment to computer science.
        - • It gave her the opportunity to learn computer science, so she can create something with it.
      - ▪ "Knowledge is not infused, it is acquired"
        - • The process of knowledge acquisition is at the crux of understanding intelligence

- Analogies:
  - Think of knowledge as a building
  - Think of the process of acquiring the knowledge as the process of extending that building
- When we acquire intellectual structures (knowledge), they will take on both a logical and an emotional form.
- Feelings matter when it comes to learning
- The challenge to learning for a lot of people becomes one of creating a positive emotional attachment to the process of extending those knowledge buildings in our minds.
- Myth: only 2% of the global population is capable of acquiring computational knowledge
  - This is 100% untrue
  - The reason behind the low participation in the field of Computer Science
    - We've not leverage how people learn when we teach computer science.
- In computer science, we focus so much on the logical part of the curriculum instead of the emotional.
- We need to experience a positive attachment to the things that we want to learn.

Among Us Is Among Us

Imposter syndrome

"experience of intellectual phoniness as perceived by high achieving individuals. These individuals have a great fear that others might discover that they are not as competent as they appear, attributing their successes to luck, knowing the right people, being in the right place at the right time, or even their personal charm."

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In my own words It happens when a high-achieving individual who fear that others will find out that they are incompetent, and attributing their successes to luck, good network, and personal charm.